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server with removable interface cards and rou  [Advanced Search](#) [Preferences](#)

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**Web Shopping** Results 1 - 10 of about 292,000 for **server with removable interface cards and routing**. (0.2

### Product search results for **server with removable interface cards and routing**



[1801 ADSL Router Cisco CISCO1801/K9](#) \$1,198.95 - Maxi Hall  
[Cisco 1801 Integrated Services Router](#) \$953.06 - TheNerds.Net  
[Cisco CISCO1801/K9 1801 ADSL Router](#) \$971.49 - Sureneeds

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### [HP ProLiant DL385 Server series - Server Network Interface Cards ...](#)

**Server Network Interface Cards** - Determining the Slot Number for a NIC Driver ... in the IRQ routing table in the same way as are PCI slot-based adapters. ...

[h20000.www2.hp.com/bizsupport/TechSupport/Document.jsp?](#)

lang=en&cc=us&taskId=120&prodSeriesId=... - 52k - [Cached](#) - [Similar pages](#)

### [Network information server - US Patent 6260155](#)

Hot removable and insertion of attachments on fully initialized computer systems .... The information **server** system of claim 2, wherein said **interface cards** ...

[www.patentstorm.us/patents/6260155-claims.html](#) - 44k - [Cached](#) - [Similar pages](#)

### [System for communicating heterogeneous computers that are coupled ...](#)

Computer data **interface** through a removable magnetic storage unit .... **routing** data received by said network **interface card** to the first network protocol ...

[www.patentstorm.us/patents/6289388-claims.html](#) - 37k - [Cached](#) - [Similar pages](#)

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### [HowTo Configure a network \*\*card\*\* in Suse/openSUSE 10.x for LAN and ...](#)

Device Activation: Usually this is set to "At Boot Time" to use the **card** straight away. A removable **interface** may be configured to activate "On HotPlug". ...

[www.swerdna.net.au/linhowtonic.html](#) - 23k - [Cached](#) - [Similar pages](#)

### [Cisco 1600 Series and WAN Interface Cards \[Cisco 1600 Series ...](#)

Cisco 1601 R—one Ethernet, one serial, one WAN **interface card** slot .... removable Flash memory PC **cards** for easy software deployment, the Cisco ConfigMaker ...

[www.cisco.com/en/US/products/hw/routers/](#)

[ps214/products\\_data\\_sheet09186a0080091ff4.html](#) - 44k - [Cached](#) - [Similar pages](#)

### [Product Datasheet: IQX-200 Remote Access Server](#)

Wide-area **interface cards** reduce equipment quantity and cost with integral CSU/DSUs ...

Dial-out LAN-to-LAN **routing** lets remote users create virtual LANs by ...

[www.beagle-ears.com/lars/engineer/projects/iqx200.htm](#) - 10k - [Cached](#) - [Similar pages](#)

### [1841 Security Bundle with T1 WAN Interface Card with Integrated ...](#)

This product also includes IP **routing** software. ... Contents, Cisco 1841 router, T1 WAN **Interface Card** with Integrated DSU / CSU, documentation ...

[www.pcconnection.com/ProductDetail?Sku=5490900](#) - 112k - [Cached](#) - [Similar pages](#)

### [GovConnection - 9-Port EtherSwitch 10BaseT 100BaseTX autosensing ...](#)

The 9-port Cisco EtherSwitch 10/100 high-speed WAN **interface cards** (HWICs) ... the flexibility of integrated **routing** and switching functions in one unit. ...

[www.govconnection.com/IPA/Shop/Product/Detail.htm?sku=5423758](#) - 41k -

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**TSJ Technologies - Technology Hardware and Software - Arlington, TX**

Custom Installing drives, optical drives, hard drives, RAID drives, Hot swappable and removable drives. Network Interface Cards, memory. ...

[www.tsjtech.com/services.asp](http://www.tsjtech.com/services.asp) - 28k - [Cached](#) - [Similar pages](#)

**Cisco 1600 Series and WAN Interface Cards**

All Cisco 1600 models support the following WAN interface cards: ... They provide not only advanced **routing** capabilities but also the option to integrate ...

[www.kmj.com/cisco/c1600.html](http://www.kmj.com/cisco/c1600.html) - 36k - [Cached](#) - [Similar pages](#)

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## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	35915	370/389 370/392 370/419 370/351 709/238 709/242 395/200 370/254 370/236 709/243 709/420	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2008/01/01 16:03
L2	48407	((removable near2 interface near2 cards) "NICS" "IFCS")	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2008/01/01 16:04
L3	48407	L2	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2008/01/01 16:05
L4	48407	2 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2008/01/01 16:05
L5	1506	2 and 1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2008/01/01 16:05
L6	11923859	@ad<"20010508" @rlad<"20010508"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2008/01/01 16:05
L7	887	5 and L6	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2008/01/01 16:05
S1	3124	router near2 table	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/20 17:39
S2	11845318	@ad<"20010508" @rlad<"20010508"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/08/22 11:07

## EAST Search History

S3	908	(interface near2 card) with router\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/08/22 11:07
S4	65	S3 and S1 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/08/22 11:14
S5	65	S4 and router\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/08/22 11:14
S6	37	S5 and routing near2 table	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/08/22 11:14
S7	38866	interface near2 card	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/08/22 11:14
S8	37	S7 and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/08/22 14:18
S9	9752	709/224	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/08/22 14:18
S10	540	370/395.53	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/08/22 14:46
S11	1	"20020049529"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/08/22 19:01
S12	11385864	@ad<"20001030" @rlad<"20001030"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:10

## EAST Search History

S13	0	S11 and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/08/22 14:47
S14	1	"20020104011"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/08/22 19:01
S15	1	"6687247".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/20 17:39
S16	34	("5509006"   "5574910"   "5781532"   "5802287"   "5852655"   "5872783"   "6157641"   "6259699"   "6449271"   "6463067").PN. OR ("6687247").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/20 17:40
S17	3659042	@ad<"20010508" @rlad<"20010508"	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/20 18:03
S18	19	S17 and S16	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/20 17:41
S19	17	S18 and interface	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/20 17:42
S20	4	S18 and (IFC (interface adj card\$1))	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/20 17:43
S21	3	S20 and router\$1	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/20 18:02
S22	1751	router same (IFC (interface adj card\$1))	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/20 18:03
S23	1759	router same (IFC (interface adj card\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/20 18:03

## EAST Search History

S24	11973759	@ad<"20010508" @rlad<"20010508"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/20 18:03
S25	889	S24 and S23	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/20 18:03
S26	886	S25 and S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/20 18:05
S27	41	S26 and (packet adj forward)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/20 18:05
S28	1	"6687247".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/20 18:49
S29	1	"6157641".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/20 18:52
S30	1	"6757791".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/20 18:52
S31	1	"6757791".pn. and interface	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/20 18:53
S32	0	"6757791".pn. and interface and IFC	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/20 20:09

## EAST Search History

S33	185	forward with (IFC (interface adj card\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/20 20:09
S34	11878009	@ad<"20010508" @rlad<"20010508"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/20 20:09
S35	102	S33 and S34	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 10:03
S36	185	forward with (IFC (interface adj card\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 10:03
S37	11878009	@ad<"20010508" @rlad<"20010508"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 10:03
S38	102	S36 and S37	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 10:03
S39	39	S38 and router\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 10:13
S40	1	"5093824".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 10:13
S41	2	("2002/0131362").URPN.	USPAT	OR	ON	2007/02/21 10:17
S42	1	"5758171".pn.	USPAT	OR	ON	2007/02/21 10:17
S43	1	"6574695".pn.	USPAT	OR	ON	2007/02/21 10:17
S44	1	"6434652".pn.	USPAT	OR	ON	2007/02/21 10:21

## EAST Search History

S45	564	rout\$3 same (IFC (interface near5 card\$1)) same forward\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 10:23
S46	310	S45 and S37	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 10:24
S47	5505	S46 mpt S39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 10:24
S48	293	S46 not S39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 11:10
S49	1	"5473599".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 11:11
S50	1	"5848227".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 11:12
S51	1	"5963540".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 11:12
S52	1	"6148410".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 13:38

## EAST Search History

S53	57837	interface near5 cards	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 13:51
S54	12435	packet near2 forward	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 13:40
S55	259	S53 same S54	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 13:40
S56	11878009	@ad<"20010508" @rlad<"20010508"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 13:40
S57	11878009	S56	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 13:40
S58	102	S55 and S56	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 13:44
S59	10143761	(plurality one multiple several many)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 13:47
S60	13676	S59 with S53	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 13:49
S61	95	S60 same S54	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 13:49

## EAST Search History

S62	28	S61 and S56	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 13:49
S63	57837	interface near5 "cards"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 13:51
S64	2414	S63 and S54	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 13:56
S65	1235	S64 and S56	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 13:51
S66	259	S63 same S54	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/02/21 13:56
S67	3	(many pluralit\$3 multiple many) near5 ((removable near2 interface near2 card))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:11
S68	5	(many pluralit\$3 multiple many) with ((removable near2 interface near2 card))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:11
S69	21	(many pluralit\$3 multiple many) same ((removable near2 interface near2 card))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:15
S70	11895527	@ad<"20010508" @rlad<"20010508"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:12

## EAST Search History

S71	5	S68 and S70	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:12
S72	15	S69 and S70	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:12
S73	15	S69 and S70	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:13
S74	3	S67 and S70	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:13
S75	0	S74 and router\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:13
S76	0	S71 and router\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:13
S77	80476	"15" and router\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:13
S78	0	S73 and router\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:13
S79	10722	(many pluralit\$3 multiple many) same ((removable near2 interface near2 card\$1) PCMCIA (smart near2 card\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:32
S80	4458	(many pluralit\$3 multiple many) with ((removable near2 interface near2 card\$1) PCMCIA (smart near2 card\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:32

## EAST Search History

S81	418	S80 and router\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:16
S82	206	S81 and S70	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:17
S83	19280	router\$1 near15 (receiv\$3 accept\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:19
S84	4	S83 same S80	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:18
S85	1	S84 and S70	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:18
S86	157	((removable near2 interface near2 "cards"))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:35
S87	74	S86 and S70	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:33
S88	157	((removable near2 interface near2 cards))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:35
S89	46888	((removable near2 interface near2 cards) "NICS" "IFCS")	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2008/01/01 16:04
S90	6447275	rout\$3 forward\$3 redirect\$3 transmit\$4 receiv\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:40

## EAST Search History

S95	6971334	rout\$3 forward\$3 redirect\$3 transmit\$4 receiv\$4 communicat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:41
S96	16767	(S95 same S89)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:42
S97	2245	(S95 with S89) and S70	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 14:42
S98	3230	(S95 same S89) and S70	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 16:04
S99	0	remov\$4 near5 ring\$4 near5 interface near5 card\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 16:06
S100	19	remov\$4 same (ring\$4 near5 interface near5 card\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 16:09
S101	11895527	@ad<"20010508" @rlad<"20010508"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 16:06
S102	14	S100 and S101	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 16:06
S103	2301	remov\$4 with (interface near5 card\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 16:12
S104	774	remov\$4 with (optical near5 interface)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 16:12

## EAST Search History

S10 5	475	S104 and S101	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 16:12
S10 6	1	"7010232".pn. and S101	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/11 16:12
S10 7	5	interface near2 concentrator near2 module	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/12/26 19:11
S10 8	371	interface near2 concentrator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/12/26 19:11
S10 9	14	interface near2 card near2 concentrator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/12/26 19:11
S11 0	19	("20020001310"   "20020024956"   "20030185209"   "20040019696"   "20040081203"   "20060146823"   "20060242311"   "5179551"   "5179556"   "5402415"   "5608726"   "5778187"   "6314525"   "6331983"   "6553028"   "6839348"   "6873627"   "6914907"   "7099323").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 10:43
S11 1	5	("5406557"   "5491801"   "6003064"   "6122669"   "6748437").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 14:02
S11 2	1	"6687247".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 14:03
S11 3	60	("5509006"   "5574910"   "5781532"   "5802287"   "5852655"   "5872783"   "6157641"   "6259699"   "6449271"   "6463067").PN. OR ("6687247").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 17:38

## EAST Search History

S11 4	1685	server near2 rack\$2	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 17:40
S11 5	24662	remov\$4 near2 card\$1	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 17:39
S11 6	0	S114 with S115	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 17:39
S11 7	6	S114 same S115	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 17:39
S11 8	306040	server	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 17:40
S11 9	285	S118 with S115	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 17:40
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Relevance scale **1 Dynamic network reconfiguration support for mobile computers**
 Jon Inouye, Jim Binkley, Jonathan Walpole
 September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking MobiCom '97**

Publisher: ACM Press

Full text available:  [pdf\(1.60 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**2 Promises and reality: Server I/O networks past, present, and future**
 Renato John Recio
 August 2003 **Proceedings of the ACM SIGCOMM workshop on Network-I/O convergence: experience, lessons, implications NICELI '03**

Publisher: ACM Press

Full text available:  [pdf\(225.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Enterprise and technical customers place a diverse set of requirements on server I/O networks. In the past, no single network type has been able to satisfy all of these requirements. As a result several fabric types evolved and several interconnects emerged to satisfy a subset of the requirements. Recently several technologies have emerged that enable a single interconnect to be used as more than one fabric type. This paper will describe the requirements customers place on server I/O networks; t ...

**Keywords:** 10 GigE, Cluster, Cluster Networks, Gigabit Ethernet, I/O Expansion Network, IOEN, InfiniBand, LAN, PCI, PCI Express, RDMA, RNIC, SAN, Socket Extensions, TOE, iONIC, iSCSI, iSER

**3 Link and channel measurement: A simple mechanism for capturing and replaying wireless channels**
 Glenn Judd, Peter Steenkiste
 August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**

Publisher: ACM Press

Full text available:  [pdf\(6.06 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using

on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

**Keywords:** channel capture, emulation, wireless

#### 4 An open architecture for next-generation telecommunication services

 Gregory W. Bond, Eric Cheung, K. Hal Purdy, Pamela Zave, J. Christopher Ramming  
February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available:  pdf(237.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An open (in the sense of extensible and programmable) architecture for IP telecommunications must be based on a comprehensive strategy for managing feature interaction. We describe our experience with BoxOS, an IP telecommunication platform that implements the DFC technology for feature composition. We present solutions to problems, common to all efforts in IP telecommunications, of feature distribution, interoperability, and media management. We also explain how BoxOS addresses many deficiencies ...

**Keywords:** Component architectures, Intelligent Network architecture, Session Initiation Protocol, electronic mail, feature interaction, instant messaging, multimedia systems, network addressing, network interoperation, network optimization, network protocols, service creation

#### 5 Novel interaction modalities I: The connected user interface: realizing a personal

##### situated navigation service

 Antonio Krüger, Andreas Butz, Christian Müller, Christoph Stahl, Rainer Wasinger, Karl-Ernst Steinberg, Andreas Dirschl

January 2004 **Proceedings of the 9th international conference on Intelligent user interfaces IUI '04**

Publisher: ACM Press

Full text available:  pdf(15.31 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Navigation services can be found in different situations and contexts: while connected to the web through a desktop PC, in cars, and more recently on PDAs while on foot. These services are usually well designed for their specific purpose, but fail to work in other situations. In this paper we present an approach that connects a variety of specialized user interfaces to achieve a personal navigation service spanning different situations. We describe the concepts behind the \bf BPN (BMW Personal N ...

**Keywords:** pedestrian navigation systems, ubiquitous interfaces

#### 6 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the

execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

## 7 Performance engineering of web applications: MyXDNS: a request routing dns

### server with decoupled server selection

Hussein A. Alzoubi, Michael Rabinovich, Oliver Spatscheck

May 2007 **Proceedings of the 16th international conference on World Wide Web  
WWW '07**

Publisher: ACM Press

Full text available:  [pdf\(442.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents the architecture and the preliminary evaluation of a request routing DNS server that decouples server selection from the rest of DNS functionality. Our DNS server, which we refer to as MyXDNS, exposes well-defined APIs for uploading an externally computed server selection policy and for interacting with an external network proximity service. With MyXDNS, researchers can explore their own network proximity metrics and request routing algorithms without having to worry about DNS in ...

**Keywords:** DNS, load balancing, network proximity, request routing

## 8 Increasing web server throughput with network interface data caching

Hyong-youb Kim, Vijay S. Pai, Scott Rixner

October 2002 **ACM SIGARCH Computer Architecture News , ACM SIGPLAN Notices ,  
ACM SIGOPS Operating Systems Review , Proceedings of the 10th  
international conference on Architectural support for programming  
languages and operating systems ASPLOS-X**, Volume 30 , 37 , 36 Issue 5 , 10 , 5

Publisher: ACM

Full text available:  [pdf\(1.22 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

This paper introduces network interface data caching, a new technique to reduce local interconnect traffic on networking servers by caching frequently-requested content on a programmable network interface. The operating system on the host CPU determines which data to store in the cache and for which packets it should use data from the cache. To facilitate data reuse across multiple packets and connections, the cache only stores application-level response content (such as HTTP data), with applica ...

## 9 Xunet 2: lessons from an early wide-area ATM testbed

Charles R. Kalmanek, Srinivasan Keshav, William T. Marshall, Samuel P. Morgan, Robert C. Restrick

February 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 1

Publisher: IEEE Press

Full text available:  [pdf\(231.69 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** asynchronous transfer mode, available bit rate, constant bit rate, variable bit rate

## 10 GPGPU: general purpose computation on graphics hardware

 David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

**Publisher:** ACM Press

Full text available: [pdf\(63.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

**11 Design and evaluation of a wide-area event notification service**

 Antonio Carzaniga, David S. Rosenblum, Alexander L. Wolf

August 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The components of a loosely coupled system are typically designed to operate by generating and responding to asynchronous events. An event notification service is an application-independent infrastructure that supports the construction of event-based systems, whereby generators of events publish event notifications to the infrastructure and consumers of events subscribe with the infrastructure to receive relevant notifications. The two primary services that should be provided ...

**Keywords:** content-based addressing and routing, event notification, publish/subscribe

**12 An embedded domain-specific language for type-safe server-side web scripting**

 Peter Thiemann

February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(336.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

WASH/CGI is an embedded domain-specific language for server-side Web scripting. Due to its reliance on the strongly typed, purely functional programming language Haskell as a host language, it is highly flexible and---at the same time---it provides extensive guarantees due to its pervasive use of type information. WASH/CGI can be structured into a number of sublanguages addressing different aspects of the application. The *document sublanguage* provides tools for the generation of parameteri ...

**Keywords:** Interactive Web services, Web programming

**13 Exploiting path diversity in mobile systems: A mechanism for host mobility**

 management supporting application awareness

Arjan Peddemors, Hans Zandbelt, Mortaza Bargh

June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**

**Publisher:** ACM Press

Full text available: [pdf\(499.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many approaches exist today that address the issues that arise when a mobile node changes its point(s) of attachment to the Internet. Mobile IP takes care of host mobility at the IP layer; others at the transport layer (Mobile SCTP) or at the application layer (SIP with re-invite). In practice, most of these approaches rely on functionality residing on the mobile host that scans, detects and activates the networks available through one or more

network interfaces. The mechanism proposed in this pa ...

**Keywords:** application awareness, host mobility, mobility management

**14 The state of the art in locally distributed Web-server systems**

 Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu  
June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.41 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

**Keywords:** Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

**15 Balancing performance and flexibility with hardware support for network architectures**

 Ilija Hadžić, Jonathan M. Smith  
November 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 4

Publisher: ACM Press

Full text available:  pdf(719.03 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The goals of performance and flexibility are often at odds in the design of network systems. The tension is common enough to justify an architectural solution, rather than a set of context-specific solutions. The Programmable Protocol Processing Pipeline (P4) design uses programmable hardware to selectively accelerate protocol processing functions. A set of field-programmable gate arrays (FPGAs) and an associated library of network processing modules implemented in hardware are augmented with so ...

**Keywords:** FPGA, P4, computer networking, flexibility, hardware, performance, programmable logic devices, programmable networks, protocol processing

**16 Distributed hash tables meet wireless networks: Zero servers with zero broadcasts**

 Miguel Castro, Greg O'Shea, Antony Rowstron  
September 2006 **Proceedings of the 1st international workshop on Decentralized resource sharing in mobile computing and networking MobiShare '06**

Publisher: ACM Press

Full text available:  pdf(330.07 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

To achieve the vision of networks that work without any supporting infrastructure, we need wireless ad hoc technology to replace the cabling infrastructure, but we also need self-configuring network and application services to replace the server infrastructure. Current solutions perform poorly because they either pick a single host to act as the server or they use network wide broadcasts to implement services. We need wireless ad hoc networks with zero servers and zero broadcasts!C ...

**Keywords:** distributed hash tables, wireless ad hoc networks

**17 Formalizing the safety of Java, the Java virtual machine, and Java card** Pieter H. Hartel, Luc MoreauDecember 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Publisher: ACM Press

Full text available:  pdf(442.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java safety on small footprint devices such as smartcards. The conclusion is that although a lot of good work has been done, a more concerted effort is needed to build a coherent set of machine-readable formal models of the whole of Java and its implementation. This is a formidable task but we believe it is essential to build trust in Java safety, and thence to achieve ITSEC level 6 or Common Crite ...

**Keywords:** Common criteria, programming**18 Performance evaluation of a new routing strategy for irregular networks with source** routing

J. Fliech, M. P. Malumbres, P. López, J. Duato

May 2000 **Proceedings of the 14th international conference on Supercomputing ICS '00**

Publisher: ACM Press

Full text available:  pdf(859.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Networks of workstations (NOWs) are becoming increasingly popular as a cost-effective alternative to parallel computers. Typically, these networks connect processors using irregular topologies, providing the wiring flexibility, scalability, and incremental expansion capability required in this environment. In some of these networks, messages are delivered using the up\*/down\* routing algorithm [9]. However, the up\*/down ...

**Keywords:** irregular topologies, minimal routing, networks of workstations, source routing, wormhole switching**19 Firmato: A novel firewall management toolkit** Yair Bartal, Alain Mayer, Kobbi Nissim, Avishai WoolNovember 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Publisher: ACM Press

Full text available:  pdf(917.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

In recent years packet-filtering firewalls have seen some impressive technological advances (e.g., stateful inspection, transparency, performance, etc.) and wide-spread deployment. In contrast, firewall and security *management* technology is lacking. In this paper we present *Firmato*, a firewall management toolkit, with the following distinguishing properties and components: (1) an entity-relationship model containing, in a unified form, global knowledge of the sec ...

**Keywords:** Security policy, firewall, management, model definition language, visualization**20 Energy efficiency: Wireless wakeups revisited: energy management for voip over wi-fi** smartphones

Yuvraj Agarwal, Ranveer Chandra, Alec Wolman, Paramvir Bahl, Kevin Chin, Rajesh Gupta

June 2007 **Proceedings of the 5th international conference on Mobile systems, applications and services MobiSys '07**

Publisher: ACM Press

Full text available:  [pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

IP based telephony is rapidly gaining acceptance over traditional means of voice communication. Wireless LANs are also becoming ubiquitous due to their inherent ease of deployment and decreasing costs. In enterprise Wi-Fi environments, VoIP is a compelling application for devices such as smart phones with multiple wireless interfaces. However, the high energy consumption of Wi-Fi interfaces, especially when a device is idle, presents a significant barrier to the widespread adoption of VoIP over ...

**Keywords:** VoIP, Wi-Fi, cellular networks, power management, smartphones

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